ANNUAL REPORT TO THE LEGISLATURE
FOR ANNUAL YEAR 2011

COASTAL ANADROMOUS FISH PASSAGE ASSESSMENT AND REMEDIATION PROGRESS REPORT

Prepared:

September 2012

Prepared by the California Department of Transportation
Division of Environmental Analysis

2012 Progress Report for the period from January to December 2011

Summary
New fish passage barrier remediations completed: 8
Total fish passage barrier remediations since January 2006: 24
Ongoing fish passage barrier remediations: 27

Purpose
This is the seventh annual report prepared in accordance with Article 3.5 of Chapter 1 of Division 1 of the Streets and Highways Code (SB 857, Kuehl) that took effect January 1, 2006. This law directs the California Department of Transportation (Department) to prepare an annual report describing the status of the Department's progress on locating, assessing, and remediating project-related barriers to fish passage. SB 857 also directs the Department to report its progress on developing a programmatic environmental review process to streamline the permitting process for remediating fish passage barrier projects.

This report updates our remediation progress and describes the Department's fish passage activities between January 1 and December 31, 2011. The report format was revised last year to refocus on individual road-stream crossings (barriers) rather than projects with one or more crossings, to clearly report progress in remediating barriers to fish passage.

Tables show one barrier per row and each row addresses a unique barrier identified by a Department of Fish and Game (DFG) Passage Assessment Database (PAD) identification number (PAD_ID). The DFG and the California Fish Passage Forum designed the PAD to store and share fish passage barrier assessment data as part of the CalFish database system. The PAD includes web accessible database searching and mapping features that link specific barriers with web-based mapping via PAD_ID numbers. The PAD is found on the DFG CALFISH web pages: http://www.calfish.org/tabid/83/Default.aspx.

Common names are provided for projects in the tables, however, common project names change over time as projects are developed and modified as needed. For example, a project was developed to address a large number of culverts in District 1 and named, "264 Culverts." As issues were identified and solutions developed, work was pulled off into separate fundable projects. The majority of culverts in this project were not on fish bearing streams. The remaining project is currently named "51 Culverts" and the associated table entries in this report were edited to use the current project name, "51 Culverts." The Department uses project numbers for project identification. The provided PAD_ID numbers are a barrier identification that can be used to translate barrier locations across agencies.

Related Policy
The Department issued a policy memorandum on July 7, 2006, from Jay Norvell, Chief, Division of Environmental Analysis (DEA), to District Deputy Directors and others. That memorandum set SB 857 related policy, provided a copy of SB 857 and provided fish passage assessment and reporting protocols. The DEA maintains internal intranet web pages that contain copies of various policy memoranda and guidance, including a page for fish passage assessment, an annual SB 857 reporting page and a permit streamlining page. These pages provide easy access to policy and guidance for all staff and managers.

Table 1. Completed Salmonid Fish Passage Barrier Remediations Since January 1, 2006							
Map #	District	County	Route	Post Mile	PAD_ID #	Stream Name	Project Name
8	**1**	**Mendocino**	**128**	**39.95**	**707212**	**John Hatt Creek**	**Beebe Storm Damage**
9	**1**	**Mendocino**	**128**	**39.95**	**713145**	**John Hatt Creek**	**Beebe Storm Damage**
10	**1**	**Mendocino**	**128**	**39.37**	**707209**	**Beebe Creek**	**Beebe Storm Damage**
11	1	Humboldt	101	115.3	737005	Unnamed Tributary	Stone Lagoon
12	1	Mendocino	101	81.4	706986	Rattlesnake Creek	Rattlesnake Creek
13	1	Mendocino	101	99	7071152	Red Mountain Creek	Confusion Hill Mitigation
14	2	Shasta	299	20.7	737289	Salt Creek	Salt Creek Fish Passage Improvement Project
15	2	Tehama	5	16.9	737006	Elder Creek	Elder and Dibble Creek Scour Mitigation Improvement
16	2	Tehama	5	28.1	737007	Dibble Creek	Elder and Dibble Creek Scour Mitigation
17	**2**	**Tehama**	**99**	**14**	**58240**	**Craig Creek**	**Craig Creek Fish Passage Project**
18	2	Tehama	99	15.6	737013	Sunset Canal	Sunset Canal Bridge
19	4	Napa	121	1	714975	Huichica Creek	Duhig Road Realign Curves and Widen Shoulder
20	5	Santa Barbara	101	33.9	706642	El Capitan Creek	El Capitan Creek
21	5	Santa Barbara	101	41	707405	Arroyo Hondo Creek	Arroyo Hondo
22	5	Santa Barbara	101	47.2	706669	Gaviota Creek	Gaviota Creek
23	5	Santa Cruz	1	10	706703	Valencia Creek	Valencia Creek; Tributary to Aptos Creek
24	5	Santa Cruz	1	17.4	735367	Branciforte Creek	Branciforte Creek and Carbonera Creek

[1] "Project Name" is provided for convenience here. PAD_ID numbers provide a universal reference number that allows specific barrier identification across agencies and partners. Where PAD_ID shows "N/A", a PAD ID was not available. PAD_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD). [2]Projects completed in 2011 are shown in bold underlined Text.

Active Remediations Summary (27 barriers):

A map of locations, for items, in Table 2, Fish Passage Barriers under remediation," is shown in Figure 2, Fish passage barriers under remediation." Note that this table shows one barrier per

row rather than one project per row. Newly active remediations are shown in **bold and underlined type** across the row. Changed dates are shown in **bold and underlined type** for the date entry only.

Table 2. Fish Passage Barrier remediations in progress.

Map #	District	County	Route	Post Mile	Date	PAD_ID	Stream Name	Project Name
1	**1**	**Humboldt**	**299**	**4.2**	**CCA 8/1/2013**	**716742**	**Hall Creek**	**Hum-101 Mad River Bridges**
2	1	Mendocino	1	92.83	CCA 1/1/2014	706958	Dunn Creek	Dunn Creek Fish Passage
3	**1**	**Mendocino**	**101**	**44.0**	**CCA 8/1/2019**	**71308**	**Unnamed Tributary to Haehl Creek**	**Willits Bypass**
4	**1**	**Mendocino**	**101**	**44.0**	**CCA 8/1/2019**	**71307**	**Unnamed Tributary to Haehl Creek**	**Willits Bypass**
5	**1**	**Mendocino**	**101**	**44.5**	**CCA 8/1/2019**	**712894**	**Unnamed Tributary to Haehl Creek**	**Willits Bypass**
6	**1**	**Mendocino**	**101**	**48.1**	**CCA 8/1/2019**	**705136**	**Upp Creek**	**Willits Bypass**
7	1	Mendocino	101	52.3	CCA 10/1/2014	707085	Ryan Creek	Encroachment Permit and DFG Fisheries Restoration Grant Program Grant
8	**1**	**Mendocino**	**101**	**52.4**	**CCA 8/1/2014**	**707086**	**North Fork Ryan Creek**	**North Fork Ryan Creek**
9	1	Mendocino	101	66.5	CCA 11/1/2012	707096	Ten Mile Creek	36 Culverts
10	**1**	**Mendocino**	**101**	**84.0**	**CCA 8/1/2014**	**706987**	**Rattlesnake Creek**	**Rattlesnake Creek**
11	**1**	**Mendocino**	**101**	**89.0**	**CCA 8/1/2015**	**706954**	**Cedar Creek**	**Cedar Creek**
12	1	Mendocino	128	21.8	CCA 11/1/2012	707199	Clow Creek	51 Culverts
13	1	Mendocino	128	27.54	CCA 7/3/2014	707205	Graveyard Creek	51 Culverts
14	1	Mendocino	128	36.63	CCA 7/3/201	707208	Lost Creek	51 Culverts
15	1	Mendocino	128	39.88	**CCA 7/3/2015**	707210	Beebe Creek	51 Culverts

Table 2. Fish Passage Barrier remediations in progress.								
Map #	District	County	Route	Post Mile	Date	PAD_ID	Stream Name	Project Name
16	2	Shasta	299	32.25	**CCA 11/3/2015**	737295	Lemm Creek (Yank Creek)	Bella Diddy Roadway Rehab.
17	**2**	**Siskiyou**	**96**	**56**	**DNS**	**707168**	**Fort Goff Creek**	**Fort Goff Creek Fish Passage**
18	2	Trinity	299	68	**DNS**	720511	Little Grass Valley Creek	Trinity Dam Boulevard. Fish Ladder
19	2	Trinity	299	68.2	**DNS**	735688	Little Grass Valley Creek	Trinity Dam Boulevard. Fish Ladder
20	4	Sonoma	1	15.1	CCA 12/1/2013	733223	Scotty Creek	Gleason Beach
21	5	Santa Barbara	1	15.6	CCA 4/1/2014	700085	Salsipuedes Creek	Salsipuedes Creek
22	5	Santa Barbara	101	5.6	DNS	734310	Arroyo Parida Creek	South Coast HOV
23	5	Santa Barbara	101	9.4	DNS	705161	Romero Creek	South Coast HOV
24	5	Santa Barbara	101	9.6	DNS	734342	San Ysidro Creek	South Coast HOV
25	5	Santa Barbara	192	15.5	CCA 6/1/2013	706239	Arroyo Parida Creek	Arroyo Parida Creek
26	7	Los Angeles	1	50.3	DNS	705781	Solstice Creek	Solstice Creek
27	7	Ventura	150	28.7	CCA 8/1/2012	723744	Santa Paula Creek	Santa Paula Creek

Changes from 2010 data are indicated in bold and underlined text. Changes in schedule are shown by bold and underlined date text. [1]Entries provide estimated construction completion dates. Dates are estimated when available pending funding, permitting, and regulatory negotiations. CCA means "Construction Contract Completion." DNS means "Date Not Scheduled." [2]"Project Name" is provided for convenience here. PAD_ID numbers provide a universal reference number that allows barrier identification across agencies and partners. Where PAD_ID shows "N/A", a PAD_ID number was not available. PAD_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD).

Project-Level Fish Passage Assessments (1 assessment)

A map of locations for fish passage assessments completed in 2011 are shown in Figure 3, Fish passage assessments completed in 2011.

The Department's District 1 prepared a Drainage Report that includes a fish passage assessment to address a known barrier and to assure fish passage for the Hum-101 Mad River Bridge project.

Table 3. 2011 fish passage assessments.								
Map #	Report Date	County	Route	Post Mile	PAD ID[1]	Stream	Tributary to:	Project Name
1	10/26/2011	Humboldt	299	4.2	716742	Hall Creek	Mad River	Hum-101 Mad River Bridges

[1]PAD_ID numbers provided a universal reference number that allows specific barrier identification across agencies and partners. PAD_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD).

Planning-level assessments

No planning grant funds were available for 2011.

Annual Barrier Priorities

Priority List (22 barriers):

Priority transportation-related fish passage barrier remediation locations that are listed in Table 4 are shown in Figure 4, Transportation-related fish passage barrier priorities for 2011. Barriers that were recently remediated were removed and new priorities are shown in **bold and underlined** type.

Table 4 contains road-stream crossing barriers that currently have high priority for remediation. All listed crossings have equal priority at this time; however, the Department and DFG continue working towards a combined transportation-related fish passage remediation priority list. The Department and DFG are working with the Fish Passage Forum to develop a statewide, technical, biological, fish passage barrier priority ranking system.

Table 4. 2011 Priority transportation-related fish passage barrier remediations.								
Map link	District	PAD _ID	County	Route	Post Mile	Site Name	Stream Name	Tributary to:
A	1	707143	Del Norte	197	5.0	Sultan Creek.	Sultan Creek	Smith River
B	**1**	**707142**	**Del Norte**	**197**	**6.2**	**Little Mill Creek**	**Little Mill Creek**	**Smith River**
C	1	707157	Humboldt	254	4.2	Fish Creek Avenue of the Giants	Fish Creek	S. Fork Eel River
D	1	705136	Mendocino	101	48.1	Upp Creek	Upp Creek	Mill Creek
E	1	707085	Mendocino	101	52.3	S. Fork Ryan Creek	Ryan Creek	Outlet Creek
F	2	36070	Shasta	299	32.2	Lemon Creek Bridge	Yank Creek	Cow Creek/ Sacramento River
G	2	707147	Siskiyou	96	65.0	O'Neil Creek	O'Neil Creek	Klamath River

Table 4. 2011 Priority transportation-related fish passage barrier remediations.								
Map link	District	PAD _ID	County	Route	Post Mile	Site Name	Stream Name	Tributary to:
H	**2**	**707168**	**Siskiyou**	**96**	**56.0**	**Fort Goff Creek Fish Passage**	**Fort Goff Creek**	**Klamath**
I	2	720511	Trinity	299	68.0	Little Grass Valley Creek	Little Grass Valley Creek	Grass Valley Creek/ Trinity River
J	2	735688	Trinity	299	68.2	Little Grass Valley Creek	Little Grass Valley Creek	Grass Valley Creek/ Trinity River
K	3	58718	El Dorado	89	13.3	Camp Richardson Water Quality	Tallac Creek	Lake Tahoe
L	3	58968	Butte	99	45.5	Pine Creek	Pine Creek	Sacramento River
M	3	58967	Butte	99	40.5	Rock Creek	Rock Creek	Sacramento River
N	4	N/A	Napa	121	9.3	Sarco Creek Bridge Replacement	Sarco Creek	Miliken Creek
O	4	733223	Sonoma	1	15.3	Gleason Beach	Scotty Creek	Pacific Ocean
P	5	700085	Santa Barbara	1	15.6	Salsipuedes Creek	Salsipuedes Creek	Santa Ynez River
Q	5	707182	Santa Barbara	101	2.2	Carpinteria Creek	Carpinteria Creek	Pacific Ocean
R	5	706239	Santa Barbara	192	15.5	Arroyo Parida	Arroyo Parida	Pacific Ocean
S	7	705781	Los Angeles	1	50.3	Solstice Creek	Solstice Creek	Pacific Ocean
T	7	723744	Ventura	150	28.7	Santa Paula Creek	Santa Paula Creek	Santa Clara River
U	11	735076	San Diego	76	45.5	Wigham Creek	Wigham Creek	San Luis Rey River
V	11	712680	San Diego	76	29.5	SR-76 Pauma Creek	Pauma Creek	San Luis Rey River

[1] "Project Name" is provided for convenience here. PAD_ID numbers provide a universal reference number that allows specific barrier identification across agencies and partners. Where PAD_ID shows "N/A", a PAD ID was not available. PAD_ID is a number used to identify assessments entered into the DFG CALFISH Passage Assessment Database (PAD).

Programmatic Environmental Review Process

The Department continues to consult with DFG, National Oceanic and Atmospheric Administration's (NOAA) National Marine Fisheries Service (NMFS), and the U.S. Fish and Wildlife Service to streamline environmental review and permitting for fish passage remediation. We are seeking programmatic environmental authorizations to streamline a number of fish passage improvement activities that can be characterized as either routine maintenance or small projects. Routine maintenance includes culvert repair, culvert cleaning and vegetation

management, while the relatively small-impact projects include culvert installation, weir and baffle installation, and small bridge construction.

The geographic scope of the current effort is coastal drainages from the Oregon border to Santa Cruz County. It requires consultation on approximately 58 plant and 33 fish and wildlife species that may be incidentally affected by projects.

Figures:

Figure 1. Fish passage barrier remediations completed since January 2006.

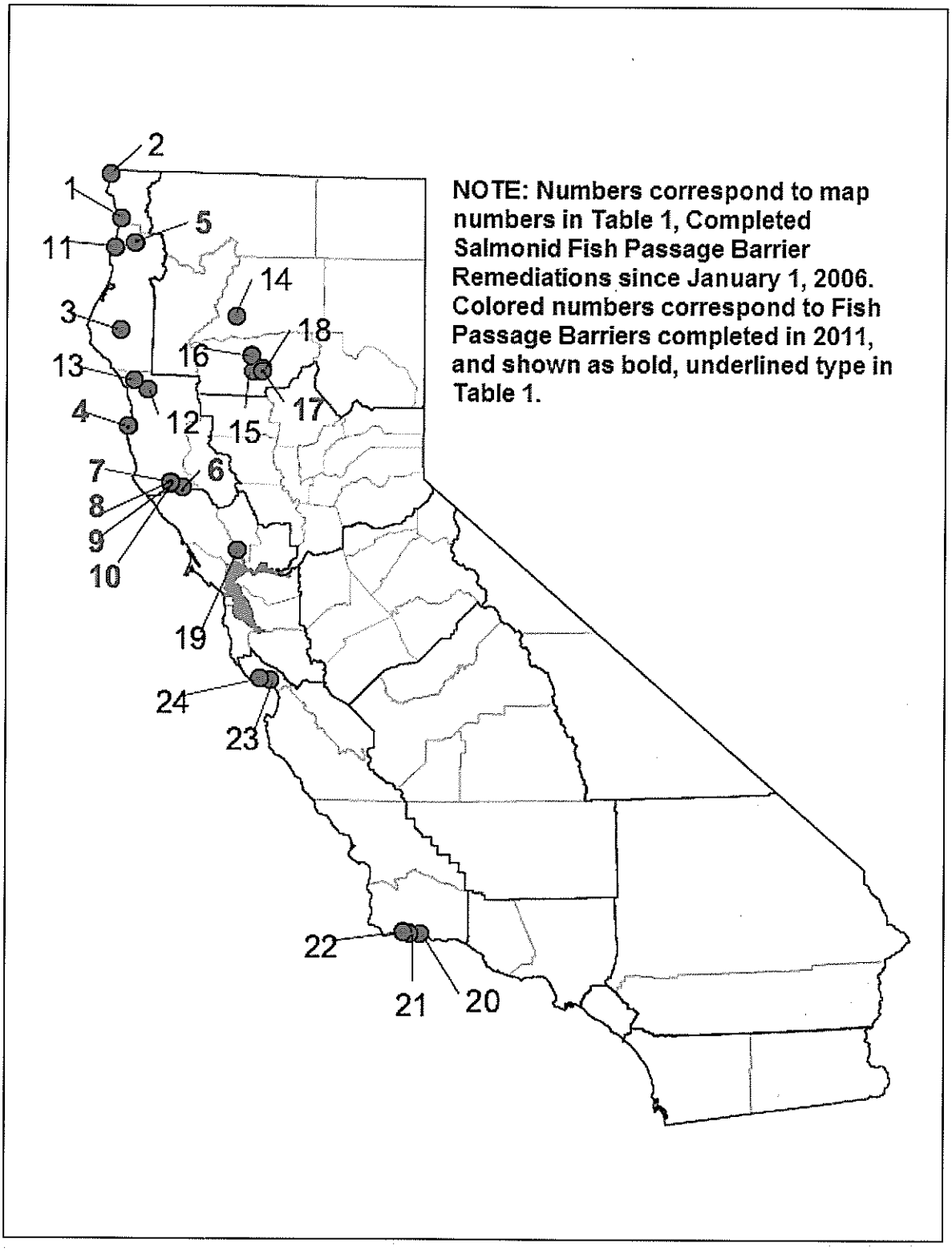

Figure 2. Fish passage barriers under remediation.

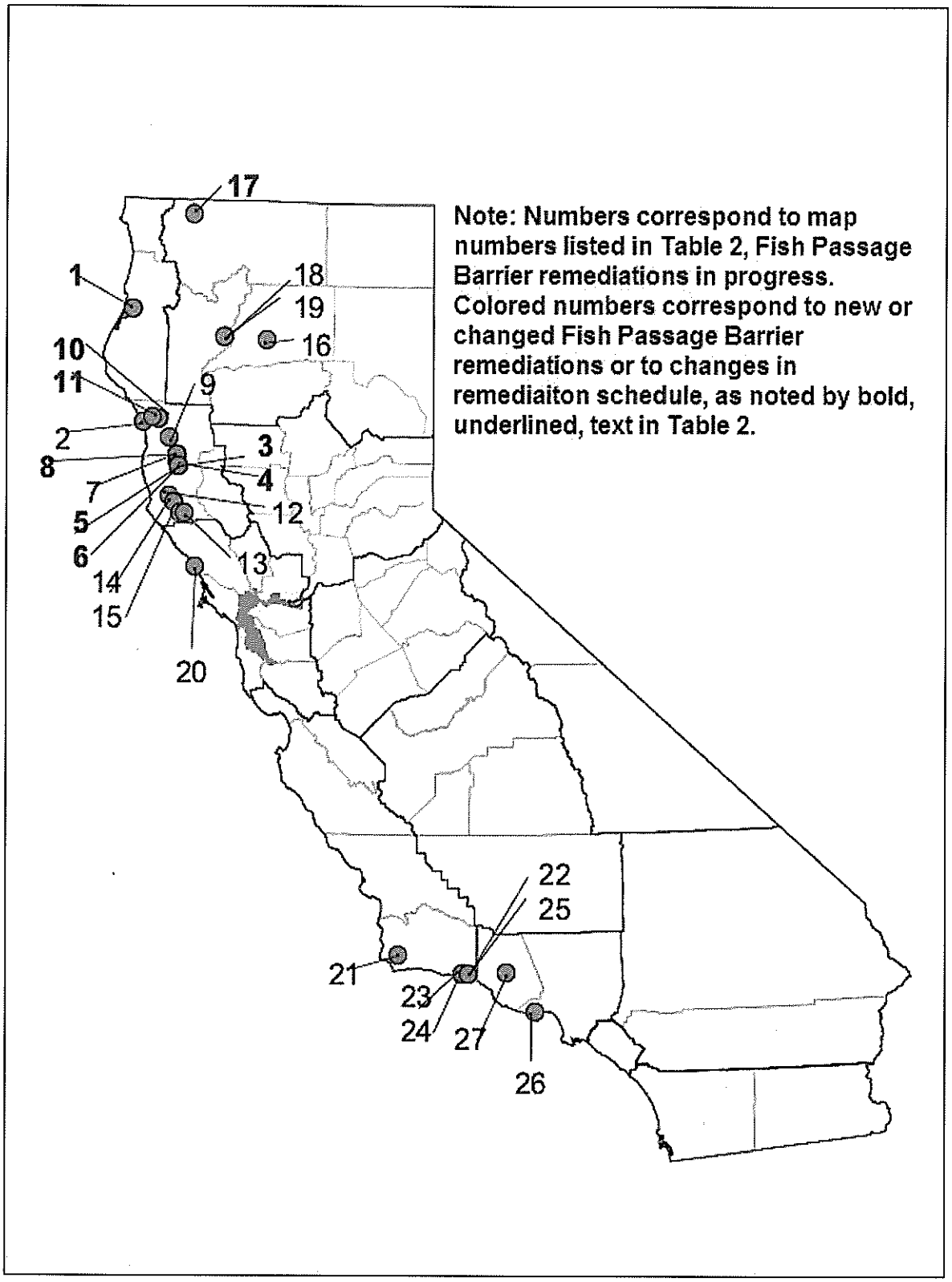

Figure 3. Fish passage assessments completed in 2011.

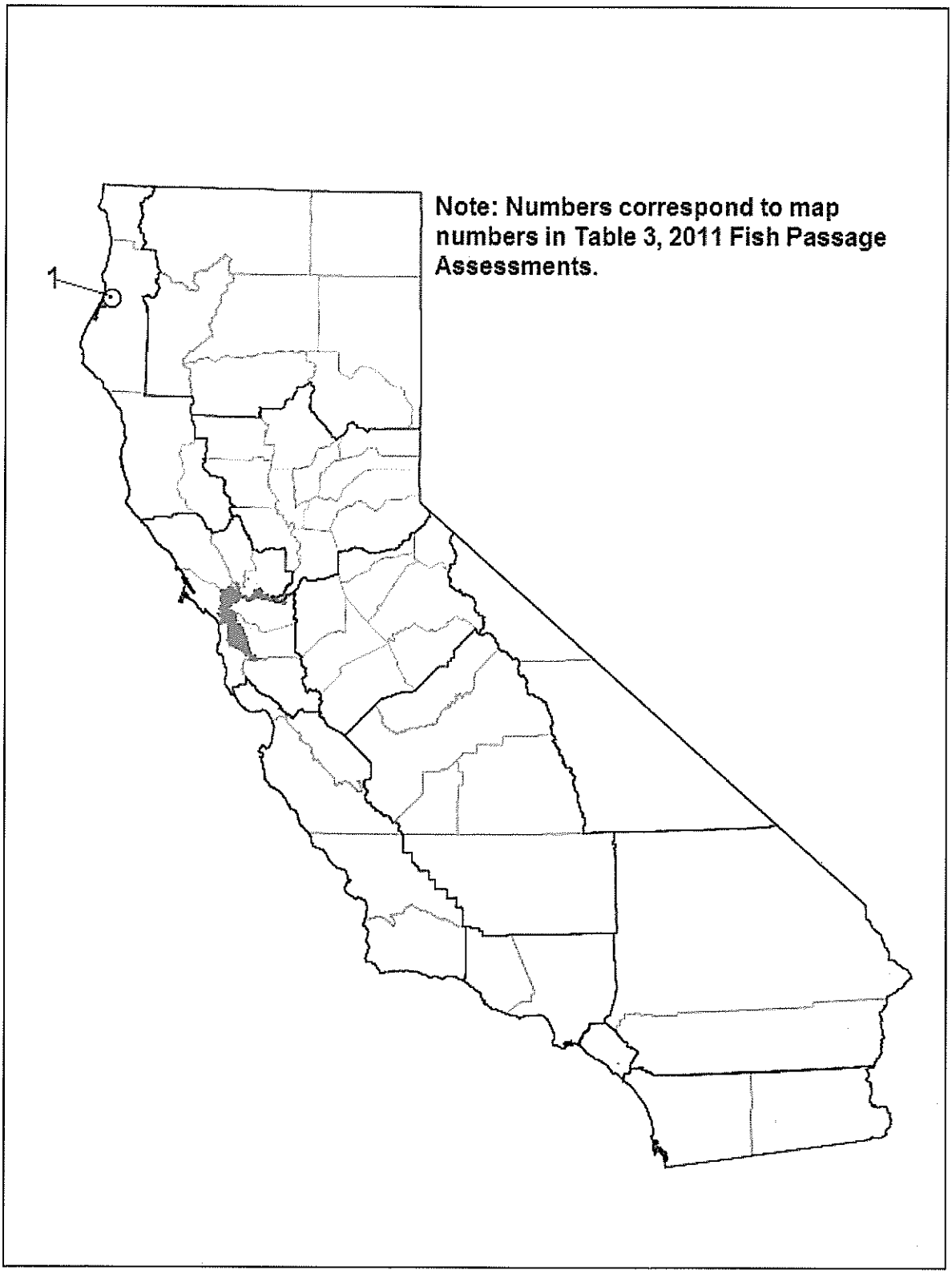
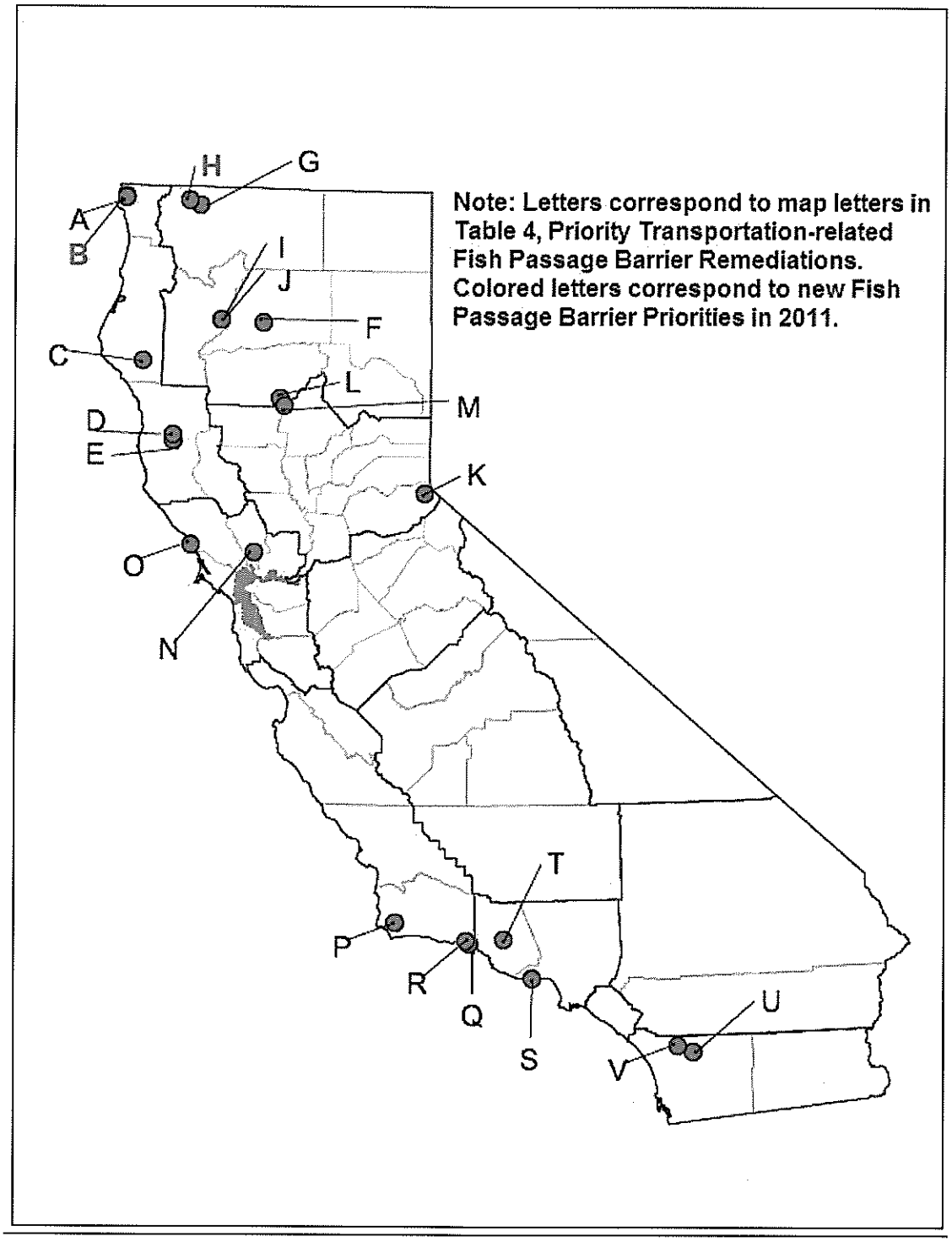
Figure 4. Transportation-related fish passage barrier priorities for 2011.